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IN THE UNITED STATES PATENT DESIGNATED OFFICE (DO/US)
(National Phase of International Appln.: PCT/GB00/02286,
Publication No. WO 00/77181 A2)

In re the
application of: **Anand RANGANATHAN**

International Application No.: **PCT/GB00/02286**

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U.S. Serial No.: **Not yet assigned**

Filed: **Herewith**

For: **DNA MANIPULATION METHODS AND
APPLICATIONS FOR SYNTHETIC ENZYMES**

Attorney Docket No.: **SHW-009US**

Commissioner for Patents
BOX PCT
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97, and § 1.98, Applicant herewith makes of record the following publications which may be material during prosecution of the above-referenced patent application.

U.S. Patent No. 4,713,337 A (Jasin Maria *et al.*)

U.S. Patent No. 4,963,487 A (Schimmel)

U.S. Patent No. 5,863,730 A (Masson *et al.*)

European Publication No. EP 0 841 402 A, published
May 13, 1998

PCT International Publication No. WO 96 40968 A, published
December 19, 1996

PCT International Publication No. WO 97 28282 A, published
August 7, 1997

PCT International Publication No. WO 98/17811 A, published
April 30, 1998

PCT International Publication No. WO 98/38326 A, published
September 3, 1998

PCT International Publication No. WO 98/49315 A, published
November 5, 1998

PCT International Publication No. WO 00/63360 A, published
October 26, 2000

D. M. Tapiolas *et al.*, "Octalactins A and B Cytotoxic Eight-Membered-Ring
Lactones from a Marine Bacterium *Streptomyces*-SP," *Journal of the American Chemical
Society*, (1991), Vol. 113, no. 2, pages 4682-4683

J. B. Nerenberg *et al.*, "Total Synthesis of the Immunosuppressive Agent (-)-Discodermolide," *Journal of the American Chemical Society, U.S., American Chemical Society, Washington, D.C.*, (1993), Vol. 115, no. 26, pages 12621-12622

Shinya Yamada *et al.*, "Total Synthesis of (-)-Decarestrictine J.," *Bioscience Biotechnology and Biochemistry*, (1995), Vol. 59, no. 9, pages 1657-1660

Ter Haar Ernst *et al.*, "Discodermolide, a Cytotoxic Marine Agent that Stabilizes Microtubules More Potently than Taxol," *Biochemistry*, (1996), Vol. 35, no. 1, pages 243-250

G. Muth *et al.*, "Mutational Analysis of *Streptomyces Lividans* recA Gene Suggests that only Mutants with Residual Activity Remain Viable," *Molecular & General Genetics*, (1997), Vol. 255, no. 4, pages 420-428

C. J. Rowe *et al.*, "Construction of New Vectors for High-Level Expression in Actinomycetes," *Gene, NL, Elsevier Biomedical Press, Amsterdam*, (1998-08), Vol. 216, no. 1, pages 215-223

R. McDaniel *et al.*, "Multiple Genetic Modifications of the Erythromycin Polyketide Synthase to Produce a Library of Novel Unnatural Natural Products," *Proceedings of the National Academy of Sciences of USA, National Academy of Science, Washington, US.*, (1999-03), Vol. 96, no. 5, pages 1846-1851

Anand Ranganathan *et al.*, "Knowledge-Based Design of Bimodular and Trimodular Polyketide Synthases Based on Domain and Module Swaps: A Route to Simple Statin Analogues," *Chemistry & Biology (London)*, (1999-10), Vol. 6, no. 10, pages 731-741

Since these publications have previously been transmitted by the International Bureau, along with the Search Report, to all the designated Offices, Applicant does not enclose copies herewith.

This statement is *not* to be interpreted as a representation that the cited publications are material, that Applicant has conducted an exhaustive search, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicant understands the Examiner will make an independent evaluation of the cited publications.

A reproduction of PTO Form 1449 accompanies this statement.

No costs are believed due in connection with the filing of this Information Disclosure Statement. However, if there are any associated costs, please charge them to our Deposit Order Account No. 12-0080.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP



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APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO. SHW-009US SERIAL NO. Not Yet Assigned <hr/> APPLICANT Anand RANGANATHAN <hr/> FILING DATE Herewith GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,713,337 A	12/87	Jasin Maria <i>et al.</i>			
AB	4,963,487 A	10/90	Schimmel			
AC	5,863,730 A	01/99	Masson <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
AD EP 0 841 402 A	05/98	EPO				
AE WO 96 40968 A	12/96	PCT				
AF WO 97 28282 A	08/97	PCT				
AG WO 98/17811 A	04/98	PCT				
AH WO 98/38326 A	09/98	PCT				
AI WO 98/49315 A	11/98	PCT				
AJ WO 00/63360 A	10/00	PCT				

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

AK	D. M. Tapiolas <i>et al.</i> , "Octalactins A and B Cytotoxic Eight-Membered-Ring Lactones from a Marine Bacterium Streptomyces-SP," <i>Journal of the American Chemical Society</i> , (1991), Vol. 113, no. 2, pages 4682-4683
AL	J. B. Nerenberg <i>et al.</i> , "Total Synthesis of the Immunosuppressive Agent (-)-Discodermolide," <i>Journal of the American Chemical Society, U.S., American Chemical Society, Washington, D.C.</i> , (1993), Vol. 115, no. 26, pages 12621-12622
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AQ	R. McDaniel <i>et al.</i> , "Multiple Genetic Modifications of the Erythromycin Polyketide Synthase to Produce a Library of Novel Unnatural Natural Products," <i>Proceedings of the National Academy of Sciences of USA, National Academy of Science, Washington, US.</i> , (1999-03), Vol. 96, no. 5, pages 1846-1851
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Examiner

Date Considered

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.